

## SEQUENCE

<110> Hexima Limited  
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 Heath, Robyn L.  
 Clarke, Adrienne E.

<120> Arabinogalactan Protein Compositions and Methods for Fostering  
 Somatic Embryogenic Competence

<130> 123-03 WO

<140> Not assigned  
 <141> 2005-03-31

<150> US 60/558,609  
 <151> 2004-03-31

<160> 27

<170> PatentIn version 3.2

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Glu	Asp	Tyr	Ser	Xaa	Xaa	Thr	Ser	Asn	Pro	Ile	Ala	Glu	Tyr	Lys
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Ser Thr Ala Ser Leu Gly Val Thr Leu Ser Val  
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<221> variation

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<223> Y is C or T; I is inosine; R is A or G; N is inosine.

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<222> (6)..(6)

<223> n is a, c, g, or t

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<222> (9)..(9)

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<223> n is a, c, g, or t

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aayccnatng cngartayaa

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 Val Gly Pro Phe Ala Phe Glu Pro Lys Cys Tyr  
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 caaactcaaa acaaccctcaa aacc 24  
  
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gatgaaagca aggcacacac ac

22

<210> 16

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<400> 16

ccccttaata attcagcacc

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<210> 17

<211> 528

<212> DNA

<213> Cotton

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agctttgcac aaggtaaaga aatcatgggt ggtggcaaaa caggcgcttg gaagatacct 120

tcttctgaat cagattctct caacaaatgg gctgaaaaag ctcgtttcca aatcggcgac 180

tctctcgtgt ggaaatatga tgggtggtaaa gactcgggtgc tccaagttag taaggaggat 240

tatacaagtt gcaatacgtc gaacccgatt gccgagtaca aagatgggaa caccaagggtg 300

aagcttgaaa agtcaggacc atatttcttc atgagtggag caaagggcca ctgagagcaa 360

ggccagaaga tgattgtggt tgtgatgtct caaaagcata ggtacattgg aatctctcca 420

gcaccttcgc cggttgattt tgaagggtccg gccgttgctc caacaagcgg agttgcaggg 480

ttgaaggctg gtttggttggg gacagtgggg gttttggggg tgttttga 528

<210> 18

<211> 175

<212> PRT

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<400> 18

Met Ala Ala Lys Ala Phe Ser Arg Ser Ile Thr Pro Leu Val Leu Leu  
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Phe Ile Phe Leu Ser Phe Ala Gln Gly Lys Glu Ile Met Val Gly Gly  
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Lys Thr Gly Ala Trp Lys Ile Pro Ser Ser Glu Ser Asp Ser Leu Asn  
35 40 45

Lys Trp Ala Glu Lys Ala Arg Phe Gln Ile Gly Asp Ser Leu Val Trp  
50 55 60

Lys Tyr Asp Gly Gly Lys Asp Ser Val Leu Gln Val Ser Lys Glu Asp  
65 70 75 80

Tyr Thr Ser Cys Asn Thr Ser Asn Pro Ile Ala Glu Tyr Lys Asp Gly  
85 90 95

Asn Thr Lys Val Lys Leu Glu Lys Ser Gly Pro Tyr Phe Phe Met Ser  
100 105 110

Gly Ala Lys Gly His Cys Glu Gln Gly Gln Lys Met Ile Val Val Val  
115 120 125

Met Ser Gln Lys His Arg Tyr Ile Gly Ile Ser Pro Ala Pro Ser Pro  
130 135 140

Val Asp Phe Glu Gly Pro Ala Val Ala Pro Thr Ser Gly Val Ala Gly  
145 150 155 160

Leu Lys Ala Gly Leu Leu Val Thr Val Gly Val Leu Gly Leu Phe  
165 170 175

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<211> 660  
<212> DNA  
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tcatcacagg gttataagtt ctatgttggt ggtagagacg gttgggttgt tagtccttct 120  
gagaactaca atcattgggc tgaaaggaat agattccaag tcaatgatac tctctttttc 180  
aagtacaaga aagggtcaga ctcggtgctg ttggtaacaa gagaagatta cttctcatgc 240  
aacaccaaga acccaattca gtctttaaca gaagggtgatt cactctttac atttgatcgg 300  
tcgggtccct tctttttcat caccggtaac gctgataatt gcaaaaaagg gcaaaagctg 360  
atcgtcgtgg tcatggctgt aagacacaaa cccagcaac aacctccttc accttctccc 420  
tcatctgctg tgacaacagc gccggtttct ccaccacat taccattcc tgaaactaac 480  
cctcctgtag agtcacaaa gagcagtgag gctccatctc atgatgctgt ggaaccagct 540  
ccgccggagc acagatcggg ttcatcaca ctatgtatgt ctacctggct ggtgttggtg 600  
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Ser Phe Ile Thr Ser Ser Gln Gly Tyr Lys Phe Tyr Val Gly Gly Arg  
 20 25 30

Asp Gly Trp Val Val Ser Pro Ser Glu Asn Tyr Asn His Trp Ala Glu  
 35 40 45

Arg Asn Arg Phe Gln Val Asn Asp Thr Leu Phe Phe Lys Tyr Lys Lys  
 50 55 60

Gly Ser Asp Ser Val Leu Leu Val Thr Arg Glu Asp Tyr Phe Ser Cys  
 65 70 75 80

Asn Thr Lys Asn Pro Ile Gln Ser Leu Thr Glu Gly Asp Ser Leu Phe  
 85 90 95

Thr Phe Asp Arg Ser Gly Pro Phe Phe Phe Ile Thr Gly Asn Ala Asp  
 100 105 110

Asn Cys Lys Lys Gly Gln Lys Leu Ile Val Val Val Met Ala Val Arg  
 115 120 125

His Lys Pro Gln Gln Gln Pro Pro Ser Pro Ser Pro Ser Ser Ala Val  
 130 135 140

Thr Thr Ala Pro Val Ser Pro Pro Thr Leu Pro Ile Pro Glu Thr Asn  
 145 150 155 160

Pro Pro Val Glu Ser Pro Lys Ser Ser Glu Ala Pro Ser His Asp Ala  
 165 170 175

Val Glu Pro Ala Pro Pro Glu His Arg Ser Gly Ser Phe Lys Leu Val  
 180 185 190

Cys Ser Thr Trp Leu Val Leu Gly Phe Gly Ile Trp Val Ser Met Ala  
 195 200 205

Leu Gly Ile Glu Asn Val Val Cys Phe Trp Cys  
 210 215



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20 25 30

Gly Ser Lys Glu Ile Met Val Gly Gly Lys Thr Gly Ala Trp Lys Ile  
35 40 45

Pro Ser Ser Glu Ser Asp Ser Leu Asn Lys Trp Ala Glu Lys Ala Arg  
50 55 60

Phe Gln Ile Gly Asp Ser Leu Val Trp Lys Tyr Asp Gly Gly Lys Asp  
65 70 75 80

Ser Val Leu Gln Val Ser Lys Glu Asp Tyr Thr Ser Cys Asn Thr Ser  
85 90 95

Asn Pro Ile Ala Glu Tyr Lys Asp Gly Asn Thr Lys Val Lys Leu Glu  
100 105 110

Lys Ser Gly Pro Tyr Phe Phe Met Ser Gly Ala Lys Gly His Cys Glu  
115 120 125

Gln Gly Arg Lys Met Ile Val Val Val Met Ser Gln Lys His Arg Tyr  
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Ile Gly Ile  
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Gly Ser Tyr Lys Phe Tyr Val Gly Gly Arg Asp Gly Trp Val Val Ser  
35 40 45

Pro Ser Glu Asn Tyr Asn His Trp Ala Glu Arg Asn Arg Phe Gln Val  
50 55 60

Asn Asp Thr Leu Phe Phe Lys Tyr Lys Lys Gly Ser Asp Ser Val Leu  
 65 70 75 80

Leu Val Thr Arg Glu Asp Tyr Phe Ser Cys Asn Thr Lys Asn Pro Ile  
 85 90 95

Gln Ser Leu Thr Glu Gly Asp Ser Leu Phe Thr Phe Asp Arg Ser Gly  
 100 105 110

Pro Phe Phe Phe Ile Thr Gly Asn Ala Asp Asn Cys Lys Lys Gly Gln  
 115 120 125

Lys Leu Ile Val Val Val Met Ala Val Arg His Lys Pro Gln Gln Gln  
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